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Search Results -

Terms	Documents
l10 and brain	15

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Refine Search: l10 and brain — Clear

Search History

Today's Date: 11/30/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l10 and brain	15	L13
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l10 and choroid	1	L12
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l10 and retinal	1	L11
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l9 and sv40	38	L10
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l8 and (established cell?)	148	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	rat?	1505695	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l6 and established	60	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l4 and sv40	67	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	l4 and tsa58	0	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	transgenic rat?	124	L4
DWPI	transgenic rats	14	L3
DWPI	jp4120228930	0	L2
DWPI	jp412228930	0	L1

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS 3	Feb 06	Engineering Information Encompass files have new names
NEWS 4	Feb 16	TOXLINE no longer being updated
NEWS 5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS 6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7	May 07	DGENE Reload
NEWS 8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS 9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS 10	Aug 23	In-process records and more frequent updates now in MEDLINE
NEWS 11	Aug 23	PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12	Aug 23	Adis Newsletters (ADISNEWS) now available on STN
NEWS 13	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS 14	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS 15	Oct 09	Number of Derwent World Patents Index updates increased
NEWS 16	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 17	Oct 22	Over 1 million reactions added to CASREACT
NEWS 18	Oct 22	DGENE GETSIM has been improved
NEWS 19	Oct 29	AAASD no longer available
NEWS 20	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS 21	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS 22	Nov 29	COPPERLIT now available on STN
NEWS 23	Nov 29	DWPI revisions to NTIS and US Provisional Numbers

NEWS EXPRESS	August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 11:00:05 ON 30 NOV 2001

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=> s transgenic rat?
L1         2089 TRANSGENIC RAT?

=> s l1 and (sv40 or tsa58)
L2           67 L1 AND (SV40 OR TSA58)

=> s l2 and (established cell?)
   2 FILES SEARCHED...
L3            2 L2 AND (ESTABLISHED CELL?)

=> d l3 1-2 ti abs ibib

L3   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2001 ACS
TI   Immortalized cell lines from transgenic rats carrying
     large T antigen gene of a temperature-sensitive mutant of SV40
AB   Described are transgenic rats obtained by introduction
     of a large T antigen gene of an SV40 temp. sensitive mutant
     tsA58 into rat omnipotent cells, and the established
     cell lines prepd. from their organs.  A method for establishing
     immortalized cell lines by sub-culturing cells obtained from the organs,
     eg. kidney cells, or testis cells, of the above described transgenic
     animal is also claimed.  The cell line derived from the kidney cells and
     testis cells express the temp. sensitive SV40 large T antigen.
ACCESSION NUMBER:         2000:579700  CAPLUS
DOCUMENT NUMBER:          133:174249
TITLE:                    Immortalized cell lines from transgenic
                          rats carrying large T antigen gene of a
                          temperature-sensitive mutant of SV40
INVENTOR(S):              Takahashi, Toshikazu; Hirabayashi, Masumi; Ueda,
                          Shouji; Tatewaki, Masuo
PATENT ASSIGNEE(S):       YS New Tecnology Kenkyusho K. K., Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 9 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
     JP 2000228930      A2   20000822      JP 1998-64059    19980227

L3   ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2001 ACS
```

TI Preparation of **established cell** lines from transgenic animals carrying large T-Ag of a temperature-sensitive mutant of **SV40**

AB Described are the **established cell** lines prepd. from the retinal capillary endothelial cells, choroid plexus epithelial cells or brain capillary endothelial cells of a **transgenic rat** carrying a large T antigen gene of an **SV40** temp. sensitive mutant **tsA58**. The cell line derived from the retinal capillary endothelial cells expresses the temp. sensitive **SV40** large T antigen, the GLUT-1 carrier and the p-glycoprotein. The cell line derived from the choroid plexus epithelial cells expresses the temp. sensitive **SV40** large T antigen gene and shows the localization of Na+-K+ ATPase and the GLUT-1 carrier in the cell membrane. When cultured in a monolayer, it shows the localization of Na+-K+ ATPase in the apical side. The cell line derived from the brain capillary endothelial cells expresses the temp. sensitive **SV40** large T antigen, the GLUT-1 carrier, the p-glycoprotein, alk. phosphatase, and .gamma.-glutamyltransferase. A method for establishing immortalized cell lines by subculturing cells obtained from the retinal capillary endothelial cells, choroid plexus epithelial cells or brain capillary endothelial cells of the above described transgenic animal is claimed. These cells are useful in screening drugs regarding the safety or efficacy thereof and developing methods for the diagnosis or treatment of diseases relating to nutritional metab. in retinal tissues and brains at the cellular level.

ACCESSION NUMBER: 2000:241507 CAPLUS
DOCUMENT NUMBER: 132:276303
TITLE: Preparation of **established cell** lines from transgenic animals carrying large T-Ag of a temperature-sensitive mutant of **SV40**
INVENTOR(S): Hosoya, Kenichi; Terasaki, Tetsuya; Ueda, Masatsugu; Obinata, Masuo
PATENT ASSIGNEE(S): Ys New Technology Institute Inc., Japan
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000020599	A1	20000413	WO 1999-JP5423	19991001
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, FI, FR, GB, IT, NL, SE				
EP 1118664	A1	20010725	EP 1999-970124	19991001
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE, FI				

PRIORITY APPLN. INFO.: JP 1998-296138 A 19981002
JP 1998-296139 A 19981002
WO 1999-JP5423 W 19991001

REFERENCE COUNT: 7
REFERENCE(S):
(1) Gillies, M; Investigative Ophthalmology & Visual Science 1997, V38(3), P635 MEDLINE
(2) Hakvoort, A; Journal of Neurochemistry 1998, V71(3), P1141 CAPLUS
(3) Hoheisel, D; Biochemical and Biophysical Research Communications 1998, V244(1), P312 CAPLUS
(5) Noble, M; Transgenic Research 1995, V4(4), P215 CAPLUS
(6) Ramanathan, V; Pharmaceutical Research 1996, V13(6), P952 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

d his

(FILE 'HOME' ENTERED AT 11:00:05 ON 30 NOV 2001)

FILE 'BIOSIS, EMBASE, CAPLUS, MEDLINE' ENTERED AT 11:00:31 ON 30 NOV 2001

L1 2089 S TRANSGENIC RAT?
L2 67 S L1 AND (SV40 OR TSA58)
L3 2 S L2 AND (ESTABLISHED CELL?)
L4 61 S L2 AND (CELL? OR CELL (W) LINE?)
L5 27 DUP REM L4 (34 DUPLICATES REMOVED)

d l5 ti abs ibib 4,8,9,10,11,12,15,16,17,21

L5 ANSWER 4 OF 27 BIOSIS COPYRIGHT 2001 BIOSIS
TI Establishment of retinal **cell line** from temperature sensitive **SV40** large T antigen **transgenic rat**

ACCESSION NUMBER: 2001:351815 BIOSIS
DOCUMENT NUMBER: PREV200100351815
TITLE: Establishment of retinal **cell line** from temperature sensitive **SV40** large T antigen **transgenic rat**.
AUTHOR(S): Tomita, H. (1); Nikami, Y. (1); Abe, T. (1); Nakazawa, T. (1); Tamai, M. (1)
CORPORATE SOURCE: (1) Department of Ophthalmology, Tohoku Univ School of Medicine, Aoba-Ku, Sendai Japan
SOURCE: IOVS, (March 15, 2001) Vol. 42, No. 4, pp. S634. print. Meeting Info.: Annual Meeting of the Association for Research in Vision and Ophthalmology Fort Lauderdale, Florida, USA April 29-May 04, 2001
DOCUMENT TYPE: Conference
LANGUAGE: English
SUMMARY LANGUAGE: English

102 (a) 1-6.

L5 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2001 ACS
TI Conditionally immortalized retinal capillary endothelial **cell lines** (TR-iBRB) expressing differentiated endothelial **cell** functions derived from a **transgenic rat**
AB The objective of this study was to establish and characterize a retinal capillary endothelial **cell line** (TR-iBRB) from a newly developed **transgenic rat** harboring the temp.-sensitive simian virus 40 (SV 40) large T-antigen gene (Tg rat). Retinal capillary endothelial **cells** were isolated from a Tg rat and cultured in collagen-coated dishes at 37.degree.C for a period of 48 h. **Cells** were subsequently cultured at 33.degree.C to activate the large T-antigen. At the third passage, **cells** were cloned by colony formation and isolated from other **cells**. Nine immortalized **cell lines** of retinal capillary endothelial **cells** (TR-iBRB1 .apprx. 9) were obtained from a Tg rat. These **cell lines** had a spindle-fiber shape morphol., expressed the typical endothelial marker, von Willebrand factor, and internalized acetylated-low d. lipoprotein. Moreover, vascular endothelial growth factor (VEGF) receptor-2 was expressed in TR-iBRBs. TR-iBRBs expressed a large T-antigen and grew well at 33.degree.C with a doubling time of 19-21 h. In contrast, **cells** did not grow at 37 and 39.degree.C due to the reduced expression of large T-antigen, supporting temp.-dependent **cell** growth. TR-iBRBs expressed GLUT1 and exhibited 3-O-methyl-D-glucose (3-OMG) uptake activity. This 3-OMG uptake was saturable with a Michaelis-Menten const. of 5.56 .+-. 0.51 mM and a max. uptake rate of 45.3 .+-. 2.6 nmol min-1 mg protein-1. P-Glycoprotein, with a mol. wt. of .apprx.180 KDa, was expressed in TR-iBRBs. In addn., mdr 1a, mdr 1b and mdr 2 were detected in TR-iBRB2 using RT-PCR. In conclusion, conditionally immortalized retinal capillary endothelial **cell lines** were established from a **transgenic rat** harboring the temp.-sensitive SV 40 large T-antigen gene and these lines were shown to exhibit the properties of retinal capillary endothelial **cells**. (c) 2001 Academic Press.
ACCESSION NUMBER: 2001:60957 CAPLUS
DOCUMENT NUMBER: 134:233932
TITLE: Conditionally immortalized retinal capillary endothelial **cell lines** (TR-iBRB) expressing differentiated endothelial **cell** functions derived from a **transgenic**

102 (a) 1-6

rat

AUTHOR(S): Hosoya, Ken-Ichi; Tomi, Masatoshi; Ohtsuki, Sumio; Takanaga, Hitomi; Ueda, Masatsugu; Yanai, Nobuaki; Obinata, Masuo; Terasaki, Tetsuya

CORPORATE SOURCE: Department of Molecular Biopharmacy and Genetics, Graduate School of Pharmaceutical Sciences, Tohoku University, Aoba, Aramaki, Aoba-ku, Sendai, Japan

SOURCE: Exp. Eye Res. (2001), 72(2), 163-172
CODEN: EXERA6; ISSN: 0014-4835

PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 43
REFERENCE(S):
(2) Alm, A; Ophthalmic Res 1985, V17, P181 CAPLUS
(3) Barrand, M; FEBS Lett 1995, V374, P179 CAPLUS
(4) Betz, A; Exp Eye Res 1980, V30, P593 CAPLUS
(6) de Vries, H; J Neurochem 1993, V61, P1813 CAPLUS
(7) Ennis, S; Invest Ophthalmol Vis Sci 1982, V23, P447 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 27 BIOSIS COPYRIGHT 2001 BIOSIS

TI Characterization of the amino acid transport of new immortalized choroid plexus epithelial **cell lines**: A novel in vitro system for investigating transport functions at the blood-cerebrospinal fluid barrier.

AB Purpose: To establish and characterize a choroid plexus epithelial **cell line** (TR-CSFB) from a new type of **transgenic rat** harboring the temperature-sensitive simian virus 40 (ts SV 40) large T-antigen gene (Tg rat). Methods: Choroid plexus epithelial **cells** were isolated from the Tg rat and cultured on a collagen-coated dish at 37degreeC during the first period of 3 days. **Cells** were subsequently cultured at 33degreeC to activate large T-antigen. At the third passage, **cells** were cloned by colony formation and isolated from other **cells** using a penicillin cup. Results: Five immortalized **cell lines** of choroid plexus epithelial **cells** (TR-CSFB 1apprx5) were obtained from two Tg rats. These **cell lines** had a polygonal **cell** morphology, expressed the typical choroid plexus epithelial **cell** marker, transthyretin, and possessed Na+, K+-ATPase on their apical side. TR-CSFBs **cells** expressed a large T-antigen and grew well at 33degreeC with a doubling-time of 35apprx40 hr. (3H)-L-Proline uptake by TR-CSFB **cells** took place in an Na+-dependent, ouabain-sensitive, energy-dependent, and concentration-dependent manner. It was also inhibited by alpha-methylaminoisobutylic acid, suggesting that system A for amino acids operates in TR-CSFB **cells**. When (3H)-L-proline uptake was measured using the Transwell device, the L-proline uptake rate following application to the apical side was five-fold greater than that following application to the basal side. In addition, both Na+-dependent and Na+-independent L-glutamic acid (L-Glu) uptake processes were present in TR-CSFB **cells**. Conclusions: Immortalized choroid plexus epithelial **cell lines** were successfully established from Tg rats and have the properties of choroid plexus epithelial **cells**, and amino acid transport activity was observed in vivo.

ACCESSION NUMBER: 2001:272236 BIOSIS
DOCUMENT NUMBER: PREV200100272236
TITLE: Characterization of the amino acid transport of new immortalized choroid plexus epithelial **cell lines**: A novel in vitro system for investigating transport functions at the blood-cerebrospinal fluid barrier.

102(a)

7-10

AUTHOR(S): Kitazawa, Takeo; Hosoya, Ken-ichi; Watanabe, Masatomi; Takashima, Tadayuki; Ohtsuki, Sumio; Takanaga, Hitomi; Ueda, Masatsugu; Yanai, Nobuaki; Obinata, Masuo; Terasaki, Tetsuya (1)
CORPORATE SOURCE: (1) Department of Molecular Biopharmacy and Genetics, Graduate School of Pharmaceutical Sciences, Tohoku University, Aoba, Aramaki, Aoba-ku, Sendai, 980-8578: terasaki@mail.pharm.tohoku.ac.jp Japan
SOURCE: Pharmaceutical Research (New York), (January, 2001) Vol. 18, No. 1, pp. 16-22. print.
ISSN: 0724-8741.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 10 OF 27 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 4
TI Establishment of bone marrow-derived endothelial **cell lines** from ts-**SV40** T-antigen gene **transgenic rats**.
AB Purpose: Postneonatal neovascularization is thought to result exclusively from the proliferation, migration, and remodeling of fully differentiated endothelial **cells** (ECs). Recently, it has been reported that bone marrow contains **cells** which can differentiate into ECs and contribute to neoangiogenesis in adult species. In this study, we tried to establish conditionally immortalized endothelial **cell lines** (TR-BME) derived from rat bone marrow. Methods: Mononuclear **cells** were isolated and differentiated into ECs at 37degreeC from the bone marrow of a **transgenic rat** harboring temperature-sensitive **SV40** large T-antigen (ts T-Ag) gene. Then, the **cells** were transferred and incubated at 33degreeC, a permissive temperature for ts T-Ag. Expression of vascular endothelial growth factor (VEGF) receptor (VEGFR)-1, 2, Tie-1, 2 and von Willebrand factor (VWF) were assayed by reverse transcriptase-mediated polymerase chain reaction (RT-PCR). Results: We have established three **cell lines** incorporating 1,1'-dioctadecyl-3,3,3',3-tetramethylindocarbocyanine perchlorate (DiI-Ac-LDL) with a spindle shape. One of these, clone 2, strongly expressed VEGFR-2, and weakly expressed VEGFR-1 and VWF. In contrast, clone 8 showed strong expression of Tie-1, 2, and VWF, and weak expression of VEGFR-1,2. All markers were expressed strongly in clone 3. Conclusions: These data confirm that the above three TR-BME **cells** are novel ECs derived from bone marrow progenitors.
ACCESSION NUMBER: 2001:267827 BIOSIS
DOCUMENT NUMBER: PREV200100267827
TITLE: Establishment of bone marrow-derived endothelial **cell lines** from ts-**SV40** T-antigen gene **transgenic rats**.
AUTHOR(S): Hattori, Kenji; Muta, Mariko; Toi, Masakazu; Iizasa, Hisashi; Shinsei, Machiko; Terasaki, Tetsuya; Obinata, Masuo; Ueda, Masatsugu; Nakashima, Emi (1)
CORPORATE SOURCE: (1) Department of Pharmaceutics, Kyoritsu College of Pharmacy, Tokyo: nakashima-em@kyoritsu-ph.ac.jp Japan
SOURCE: Pharmaceutical Research (New York), (January, 2001) Vol. 18, No. 1, pp. 9-15. print.
ISSN: 0724-8741.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2001 ACS
TI Preparation of established **cell lines** from transgenic animals carrying large T-Ag of a temperature-sensitive mutant of **SV40**

AB Described are the established **cell lines** prepd. from the retinal capillary endothelial **cells**, choroid plexus epithelial **cells** or brain capillary endothelial **cells** of a **transgenic rat** carrying a large T antigen gene of an **SV40** temp. sensitive mutant **tsA58**. The **cell line** derived from the retinal capillary endothelial **cells** expresses the temp. sensitive **SV40** large T antigen, the GLUT-1 carrier and the p-glycoprotein. The **cell line** derived from the choroid plexus epithelial **cells** expresses the temp. sensitive **SV40** large T antigen gene and shows the localization of Na+-K+ ATPase and the GLUT-1 carrier in the **cell** membrane. When cultured in a monolayer, it shows the localization of Na+-K+ ATPase in the apical side. The **cell line** derived from the brain capillary endothelial **cells** expresses the temp. sensitive **SV40** large T antigen, the GLUT-1 carrier, the p-glycoprotein, alk. phosphatase, and .gamma.-glutamyltransferase. A method for establishing immortalized **cell lines** by subculturing **cells** obtained from the retinal capillary endothelial **cells**, choroid plexus epithelial **cells** or brain capillary endothelial **cells** of the above described transgenic animal is claimed. These **cells** are useful in screening drugs regarding the safety or efficacy thereof and developing methods for the diagnosis or treatment of diseases relating to nutritional metab. in retinal tissues and brains at the **cellular** level.

ACCESSION NUMBER: 2000:241507 CAPLUS
DOCUMENT NUMBER: 132:276303
TITLE: Preparation of established **cell lines** from transgenic animals carrying large T-Ag of a temperature-sensitive mutant of **SV40**
INVENTOR(S): Hosoya, Kenichi; Terasaki, Tetsuya; Ueda, Masatsugu; Obinata, Masuo
PATENT ASSIGNEE(S): Ys New Technology Institute Inc., Japan
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000020599	A1	20000413	WO 1999-JP5423	19991001
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, FI, FR, GB, IT, NL, SE				
EP 1118664	A1	20010725	EP 1999-970124	19991001
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE, FI				

PRIORITY APPLN. INFO.: JP 1998-296138 A 19981002
JP 1998-296139 A 19981002
WO 1999-JP5423 W 19991001

REFERENCE COUNT: 7
REFERENCE(S):
(1) Gillies, M; Investigative Ophthalmology & Visual Science 1997, V38(3), P635 MEDLINE
(2) Hakvoort, A; Journal of Neurochemistry 1998, V71(3), P1141 CAPLUS
(3) Hoheisel, D; Biochemical and Biophysical Research Communications 1998, V244(1), P312 CAPLUS
(5) Noble, M; Transgenic Research 1995, V4(4), P215 CAPLUS
(6) Ramanathan, V; Pharmaceutical Research 1996, V13(6), P952 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

claimed priority to this

L5 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2001 ACS
TI Immortalized **cell lines** from **transgenic rats** carrying large T antigen gene of a temperature-sensitive mutant of **SV40**
AB Described are **transgenic rats** obtained by introduction of a large T antigen gene of an **SV40** temp. sensitive mutant **tsA58** into rat omnipotent **cells**, and the established **cell lines** prepd. from their organs. A method for establishing immortalized **cell lines** by sub-culturing **cells** obtained from the organs, eg. kidney **cells**, or testis **cells**, of the above described transgenic animal is also claimed. The **cell line** derived from the kidney **cells** and testis **cells** express the temp. sensitive **SV40** large T antigen.

ACCESSION NUMBER: 2000:579700 CAPLUS
DOCUMENT NUMBER: 133:174249
TITLE: Immortalized **cell lines** from **transgenic rats** carrying large T antigen gene of a temperature-sensitive mutant of **SV40**
INVENTOR(S): Takahashi, Toshikazu; Hirabayashi, Masumi; Ueda, Shouji; Tatewaki, Masuo
PATENT ASSIGNEE(S): YS New Tecnology Kenkyusho K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000228930	A2	20000822	JP 1998-64059	19980227

L5 ANSWER 15 OF 27 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 7
TI Isolation of a potential neural stem **cell line** from the internal capsule of an adult **transgenic rat** brain.
AB A thermosensitive mutation of simian virus 40 large T antigen (LTA) gene, the **tsA58** gene, was cloned downstream of the 6-kbp neurofilament light chain promoter in pPOLYIII and injected into the pronucleus of fertilised oocytes of Sprague-Dawley rats to develop a strain harbouring six copies of the transgene. Immunocytochemical staining of hemizygous adult tissues with antibodies to the C-terminus of LTA showed that the inactive form of LTA was expressed only in the fibres of the internal capsule and in the choroid plexus of the brain. Culturing the former region at 33degreeC, the permissive temperature for LTA, yielded a **cell line**, NF2C, which produced active LTA and grew at 33degreeC but which produced only inactive LTA and eventually died at the non-permissive temperature of 39degreeC. This clonal **cell line** was heterogeneous at 33degreeC, producing the precursor neuronal **cell** marker nestin and the glial-specific markers glial fibrillary acidic protein, vimentin and S100A1, as well as weakly producin g the neuronal **cell** markers 68-kDa neurofilament protein (NF68) and microtubule-associated protein 2 (MAP2) in different subpopulations of **cells**. However, at 39degreeC, the **cells** produced dendritic, neuronal-like processes and elevated levels of NF68 and MAP2, as well as the neuronal markers synaptophysin, neurone-specific enolase, and low levels of tau, all determined by western blotting and immunofluorescent staining. Basic fibroblast growth factor enhanced the growth of the **cells** at 33degreeC but also enhanced the formation of dendritic neuronal-like processes at 39degreeC. It is suggested that NF2C represents a potential stem **cell line** from adult

brain that expresses precursor and glial **cell** markers at 33degreeC but undergoes partial differentiation to a neuronal **cell** phenotype at 39degreeC.

ACCESSION NUMBER: 2000:9160 BIOSIS
DOCUMENT NUMBER: PREV200000009160
TITLE: Isolation of a potential neural stem **cell line** from the internal capsule of an adult **transgenic rat** brain.
AUTHOR(S): Kilty, I. C.; Barraclough, R.; Schmidt, G.; Rudland, P. S. (1)
CORPORATE SOURCE: (1) Molecular Medicine Group, School of Biological Sciences, University of Liverpool, Liverpool, L69 7ZB UK
SOURCE: Journal of Neurochemistry, (Nov., 1999) Vol. 73, No. 5, pp. 1859-1870.
ISSN: 0022-3042.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 16 OF 27 BIOSIS COPYRIGHT 2001 BIOSIS
TI Establishment of inner blood retinal barrier **cell line** from **transgenic rat** harboring temperature sensitive **SV40** large T-antigen gene.
ACCESSION NUMBER: 1999:248575 BIOSIS
DOCUMENT NUMBER: PREV199900248575
TITLE: Establishment of inner blood retinal barrier **cell line** from **transgenic rat** harboring temperature sensitive **SV40** large T-antigen gene.
AUTHOR(S): Hosoya, Ken-ichi (1); Tomi, Masatoshi (1); Yanai, Nobuaki; Obinata, Masuo; Ueda, Masatsugu; Terasaki, Tetsuya (1)
CORPORATE SOURCE: (1) Faculty of Pharmaceutical Sciences, Tohoku University, Sendai Japan
SOURCE: IOVS, (March 15, 1999) Vol. 40, No. 4, pp. S466.
Meeting Info.: Annual Meeting of the Association for Research in Vision and Ophthalmology Fort Lauderdale, Florida, USA May 9-14, 1999 Association for Research in Vision and Opthalmology
.
DOCUMENT TYPE: Conference
LANGUAGE: English

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L5 ANSWER 17 OF 27 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 8
TI Establishment of **SV40-tsA58 transgenic rats** as a source of conditionally immortalized **cell lines**.
AB To isolate a variety of rat **cell lines** with differentiated functions, we established **transgenic rat** lines expressing the temperature-sensitive large T-antigen of simian virus 40 (**SV40**) **tsA58** mutant under the control of the **SV40** large T-antigen itself. We microinjected the DNA into 564 eggs of Wistar rat and 23 independent transgenic candidates were obtained. Ten pups died before weaning and eight **transgenic rats** could not transmit the transgene to the progeny. Finally, five lines of the **transgenic rat** were established. Although one line (1511-6) had low reproductivity, the other four lines reproduced normally. Three out of the four lines (1507-2, 1509-7, 1519-8) appeared normal but the other line had tumors in the brain and subcutaneous tissue at 3 weeks of age (1511-6), and in the kidneys and subcutaneous tissue at 18 to 19-weeks of age (1507-5). Fibroblast **cells** prepared from transgenic fetuses of lines 1507-5 and 1519-8 expressed the transgene and exhibited temperatu re-dependent growth. Both of the lines (1507-5 and

1519-8) were successfully generated to be homozygous by sibling mating of transgenic offspring. These **transgenic rat** lines have bred through many generations and have been established to be a ready source of novel conditionally immortalized **cell lines**.

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TITLE: Establishment of **SV40-tsA58 transgenic rats** as a source of conditionally immortalized **cell lines**.
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CORPORATE SOURCE: (1) YS New Technology Institute Inc., 519 Shimoishibashi, Ishibashi-machi, Shimotsuga-gun, Tochigi, 329-0512 Japan
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L5 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2001 ACS
TI Conditionally immortalized **cell lines** derived from transgenic animals and their toxicological and pharmacological uses
AB Provided is a **cell line** derived from a transgenic animal comprising (1) a conditional oncogene, transforming gene or immortalizing gene or a **cell** cycle affecting gene; and (2) a **cell** type specific promoter. They include a neuronal **cell line** in which the **cell** type specific promoter is an NF-L gene promoter, and a mammary **cell line** in which the **cell** type specific promoter is a MMTV gene promoter. The conditional oncogene, transforming gene or immortalizing gene is preferably a **SV40 tsA58** gene. Prodn. of transgenic Sprague Dawley rats by using mammary-targeting vector MMTVLTRtsA58U19 (contg. MMTV Long Terminal Repeat) or brain-targeting vector NF-LtsA58.delta.t (contg. human neurofilament light chain promoter), and prepn. of **cell lines** B2LT1 and NF2C from the mammary of MMTVLTRtsA58U19 **transgenic rats** and the brain of NF-LtsA58.delta.t **transgenic rats**, resp., were shown. Prodn. of **transgenic rats** carrying oncogene such as c-erb.beta.-2 or transforming growth factor .alpha. (TGF.alpha.) that are highly assocd. with breast cancer was also shown. The transgenic animals and their immortalized **cell lines** are useful for toxicol. and pharmacol. studies.

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TITLE: Conditionally immortalized **cell lines** derived from transgenic animals and their toxicological and pharmacological uses
INVENTOR(S): Rudland, Philip Spencer; Barraclough, Barry Roger; Kilty, Iain Charles; Davies, Barry Robert; Schmidt, Guenter
PATENT ASSIGNEE(S): University of Liverpool, UK; Rudland, Philip Spencer; Barraclough, Barry Roger; Kilty, Iain Charles; Davies, Barry Robert; Schmidt, Guenter
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AU 9725723	A1	19971107	AU 1997-25723	19970417
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